# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L19 | 0 | (catheter and ((coil with embed$3) with (wall with sold))) | US-PGPUB; USPAT | OR | OFF | 2010/12/30 00:06 |
| L20 | 40 | (catheter and ((coil with embed$3) with (wall with solid))) | US-PGPUB; USPAT | OR | OFF | 2010/12/30 00:06 |
| L21 | 0 | (catheter and ((spring with embed$3) with (wall with solid))) | US-PGPUB; USPAT | OR | OFF | 2010/12/30 00:08 |
| L22 | 327 | (604/95.01).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/12/30 00:13 |
| L23 | 22 | ("20030004493" \| "5057092" \| "5063018" \| "5190520" \| "5221255" \| "5281203" \| "5328472" \| "5542937" \| "5695483" \| "5782811" \| "5863366" \| "5957899" \| "5980484" \| "6004310" \| "6036670" \| "6186978" \| "6197014" \| "6217565" \| "6273880" \| "6398776" \| "6575958" \| "6733487").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/30 00:46 |
| L24 | 4 | (("6450948") or ("5378234") or ("4934340") or ("5695483")).PN. | USPAT; USOCR | OR | OFF | 2010/12/30 00:54 |
| S1 | 211 | (604/95.01).CCLS. | USPAT; USOCR | OR | OFF | 2006/09/26 12:04 |
| S2 | 3270 | ((604/95.04) or (604/264) or (604/523) or (604/164.13) or (604/165.02) or (604/525) or (604/528) or (604/95.04)).CCLS. | USPAT; USOCR | OR | OFF | 2007/09/18 14:28 |
| S3 | 52 | S2 and steer$3 and wire and stiff$3 and member and anchor$3 and handle | USPAT | OR | OFF | 2006/09/26 12:05 |

| S4 | 827 | ((604/95.04) or (604/264) or (604/523) or (604/164.13) or (604/165.02) or (604/525) or (604/528) or (604/95.01) or (604/95.02) or (604/100.01) or (604/164.01)).CCLS. | US-PGPUB | OR | OFF | 2006/09/26 12:35 |
|---|---|---|---|---|---|---|
| S5 | 3 | S4 and wall and lumen and aperture and steering and wire and stiffening and member and anchoring and handle.clm. | US-PGPUB | OR | OFF | 2006/09/26 12:36 |
| S6 | 61 | ("3470876" \| "4586923" \| "4664113" \| "4719924" \| "4723936" \| "4757827" \| "4898577" \| "4906230" \| "4920980" \| "4934340" \| "4960411" \| "5030204" \| "5114403" \| "5114414" \| "5125896" \| "5199950" \| "5231989" \| "5318525" \| "5336182" \| "5342299" \| "5363861" \| "5368564" \| "5381782" \| "5391146" \| "5395327" \| "5409483" \| "5419340" \| "5419764" \| "5431168" \| "5472017" \| "5477856" \| "5484407" \| "5507725" \| "5531686" \| "5531687" \| "5603697" \| "5611777" \| "5636634" \| "5676653" \| "5702433" \| "5820591" \| "5843020" \| "5855560" \| "5857997" \| "5876340" \| "5876373" \| "5882333" \| "5897529" \| "5908405" \| "5916147" \| "5935102" \| "5938616" \| "6030360" \| "6059739" \| "6066125" \| "6083170" \| "6146355" \| "6213974" \| "6491681" \| "6544215" \| "6991616").PN. | USPAT | OR | OFF | 2006/09/28 16:03 |
| S7 | 50 | ("5507725").URPN. | USPAT | OR | OFF | 2006/09/28 17:13 |

| S8 | 68 | ("3470876" \| "3524446" \| "3625200" \| "4456017" \| "4601705" \| "4738659" \| "4787399" \| "4930494" \| "4934340" \| "4998923" \| "5003989" \| "5108368" \| "5114414" \| "5135531" \| "5170787" \| "5271381" \| "5279559" \| "5308324" \| "5315996" \| "5318041" \| "5318525" \| "5322064" \| "5327905" \| "5330466" \| "5358479" \| "5368564" \| "5370678" \| "5383852" \| "5383923" \| "5389073" \| "5391147" \| "5437288" \| "5441483" \| "5480382" \| "5484407" \| "5489270" \| "5507725" \| "5545200" \| "5558665" \| "5562619" \| "5571085" \| "5597378" \| "5603697" \| "5611777" \| "5617854" \| "5619993" \| "5642736" \| "5645520" \| "5656029" \| "5662621" \| "5674197" \| "5676653" \| "5715817" \| "5755760" \| "5807354" \| "5820591" \| "5865800" \| "5882329" \| "5891088" \| "5916178" \| "5931811" \| "6002955" \| "6033394" \| "6045530" \| "6066125" \| "6110164").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/28 17:45 |
| S9 | 37 | ("3470876" \| "3605725" \| "3625200" \| "4191196" \| "4233991" \| "4685457" \| "4753223" \| "4826087" \| "4838859" \| "4921482" \| "4960134" \| "4998916" \| "5019090" \| "5037391" \| "5108368" \| "5318525" \| "5325845" \| "5334145" \| "5368564" \| "5383923" \| "5397304" \| "5397321" \| "5419767" \| "5431168" \| "5441483" \| "5456664" \| "5492119" \| "5507725" \| "5588964" \| "5626136" \| "5656029" \| "5656030" \| "5681280" \| "5848986" \| "Re34502").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/28 17:46 |

| S10 | 63 | ("5441483").URPN. | USPAT | OR | OFF | 2006/09/28 18:14 |
|-----|-----|-------------------|-------|-----|-----|------------------|
| S11 | 1 | ("4934340").PN. | USPAT; USOCR | OR | OFF | 2006/09/29 15:09 |
| S12 | 1 | ("4934340").PN. | USPAT; USOCR | OR | OFF | 2006/09/30 13:35 |
| S13 | 21 | ("3043309" \| "3605725" \| "3674014" \| "3729008" \| "3773034" \| "3890977" \| "4033331" \| "4146019" \| "4176662" \| "4456017" \| "4543090" \| "4586923" \| "4601283" \| "4601705" \| "4742817" \| "4753223" \| "4758222" \| "4790624" \| "4799474").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/30 13:35 |
| S14 | 128 | ("4586923").URPN. | USPAT | OR | OFF | 2006/09/30 13:41 |
| S15 | 62 | ("3470876" \| "4586923" \| "4664113" \| "4719924" \| "4723936" \| "4757827" \| "4898577" \| "4906230" \| "4920980" \| "4934340" \| "4960411" \| "5030204" \| "5114403" \| "5114414" \| "5125896" \| "5199950" \| "5231989" \| "5318525" \| "5336182" \| "5342299" \| "5363861" \| "5368564" \| "5381782" \| "5391146" \| "5395327" \| "5409483" \| "5419340" \| "5419764" \| "5431168" \| "5472017" \| "5477856" \| "5484407" \| "5507725" \| "5531686" \| "5531687" \| "5603697" \| "5611777" \| "5636634" \| "5676653" \| "5690642" \| "5702433" \| "5820591" \| "5843020" \| "5855560" \| "5857997" \| "5876340" \| "5876373" \| "5882333" \| "5897529" \| "5908405" \| "5916147" \| "5935102" \| "5938616" \| "6030360" \| "6059739" \| "6066125" \| "6083170" \| "6146355" \| "6213974" \| "6491681" \| "6544215").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/30 13:42 |

| S16 | 37 | ("3470876" \| "3605725" \| "3625200" \| "4191196" \| "4233991" \| "4685457" \| "4753223" \| "4826087" \| "4838859" \| "4921482" \| "4960134" \| "4998916" \| "5019090" \| "5037391" \| "5108368" \| "5318525" \| "5325845" \| "5334145" \| "5368564" \| "5383923" \| "5397304" \| "5397321" \| "5419767" \| "5431168" \| "5441483" \| "5456664" \| "5492119" \| "5507725" \| "5588964" \| "5626136" \| "5656029" \| "5656030" \| "5681280" \| "5848986" \| "Re34502").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/30 14:10 |
|-----|-----|-----|-----|-----|-----|-----|
| S17 | 50 | ("5507725").URPN. | USPAT | OR | OFF | 2006/09/30 14:39 |
| S18 | 12 | ("5855560").URPN. | USPAT | OR | OFF | 2006/09/30 15:05 |
| S19 | 21 | ("3043309" \| "3605725" \| "3674014" \| "3729008" \| "3773034" \| "3890977" \| "4033331" \| "4146019" \| "4176662" \| "4456017" \| "4543090" \| "4586923" \| "4601283" \| "4601705" \| "4742817" \| "4753223" \| "4758222" \| "4790624" \| "4799474").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/30 15:44 |
| S20 | 76 | ("4934340").URPN. | USPAT | OR | OFF | 2006/09/30 15:45 |
| S21 | 76 | ("4934340").URPN. | USPAT | OR | OFF | 2006/09/30 15:46 |
| S22 | 1 | ("6066125").PN. | USPAT; USOCR | OR | OFF | 2006/09/30 15:46 |
| S23 | 2 | (("4934340") or ("6540778")).PN. | USPAT; USOCR | OR | OFF | 2007/04/13 18:09 |

| S24 | 133 | ("3043309" \| "3605725" \| "3657744" \| "3674014" \| "3729008" \| "3773034" \| "3890977" \| "4033331" \| "4140126" \| "4146019" \| "4176662" \| "4214587" \| "4456017" \| "4543090" \| "4560374" \| "4562596" \| "4577631" \| "4586923" \| "4601283" \| "4601705" \| "4723938" \| "4742817" \| "4753223" \| "4758222" \| "4787899" \| "4790624" \| "4799474" \| "4830003" \| "4848343" \| "4875480" \| "4909258" \| "5078726" \| "5104399" \| "5108416" \| "5129883" \| "5158540" \| "5167623" \| "5192297" \| "5201757" \| "5219355" \| "5221255" \| "5275622" \| "5344402" \| "5456667" \| "5464394" \| "5489295").PN. OR ("4934340" \| "6540778").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/13 18:10 |
| S25 | 1 | ("20060079925").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/14 13:36 |
| S26 | 2 | (("20060079925") or ("6905489")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/14 15:32 |
| S27 | 1 | ("6309382").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/14 15:32 |
| S28 | 39 | catheter with (prevent$3 with tear$3) | USPAT | OR | ON | 2007/09/18 14:59 |
| S29 | 1 | ("6544215").PN. | USPAT; USOCR | OR | OFF | 2007/09/18 14:39 |
| S30 | 415 | catheter and (prevent$3 with tear$3) | USPAT | OR | ON | 2007/09/18 14:59 |
| S31 | 376 | S30 not S28 | USPAT | OR | ON | 2007/09/18 14:59 |

| S32 | 62 | ("3470876" \| "4586923" \| "4664113" \| "4719924" \| "4723936" \| "4757827" \| "4898577" \| "4906230" \| "4920980" \| "4934340" \| "4960411" \| "5030204" \| "5114403" \| "5114414" \| "5125896" \| "5199950" \| "5231989" \| "5318525" \| "5336182" \| "5342299" \| "5363861" \| "5368564" \| "5381782" \| "5391146" \| "5395327" \| "5409483" \| "5419340" \| "5419764" \| "5431168" \| "5472017" \| "5477856" \| "5484407" \| "5507725" \| "5531686" \| "5531687" \| "5603697" \| "5611777" \| "5636634" \| "5676653" \| "5690642" \| "5702433" \| "5820591" \| "5843020" \| "5855560" \| "5857997" \| "5876340" \| "5876373" \| "5882333" \| "5897529" \| "5908405" \| "5916147" \| "5935102" \| "5938616" \| "6030360" \| "6059739" \| "6066125" \| "6083170" \| "6146355" \| "6213974" \| "6491681" \| "6544215").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/18 15:39 |
|-----|----|----|----|----|----|----|
| S33 | 4 | S32 and tear$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/18 15:39 |
| S34 | 12 | ("3612058" \| "4763647" \| "4920980" \| "5001825" \| "5106381" \| "5231989" \| "5238005" \| "5255668" \| "5336182" \| "5363861" \| "5431168" \| "5497784").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/18 16:03 |
| S35 | 29 | ("2498692" \| "3470876" \| "3500820" \| "3521620" \| "3528406" \| "3605725" \| "3625200" \| "3773034" \| "3934380" \| "4582181" \| "4586923" \| "4641649" \| "4643720" \| "4719924" \| "4740195" \| "4758221" \| "4838859" \| "4886067" \| "4921482" \| "4944727" \| "4985022" \| "5037391" \| "5055101").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/19 14:36 |

| S36 | 43 | ("5336182").URPN. | USPAT | OR | OFF | 2007/09/19 14:39 |
|-----|-----|------------------|-------|-----|-----|------------------|
| S37 | 9 | (("5336182") or ("4920980") or ("4934340") or ("5507725") or ("6540778") or ("6450948") or ("5152748") or ("4790624") or ("6540778") or ("6066125")).PN. | USPAT; USOCR | OR | OFF | 2008/04/10 18:38 |
| S38 | 1 | ("6544215").PN. | USPAT; USOCR | OR | OFF | 2008/04/10 18:38 |
| S39 | 1 | ("5336182").PN. | USPAT; USOCR | OR | OFF | 2008/04/10 21:57 |
| S40 | 42 | ("0944830" \| "1928992" \| "2453862" \| "3060972" \| "4198960" \| "4353358" \| "4580551" \| "4686963" \| "4904048" \| "4934340" \| "5168864" \| "5176126" \| "5255668" \| "5257618" \| "5275151" \| "5307803" \| "5318041" \| "5318526" \| "5325845" \| "5335647" \| "5409453" \| "5423807" \| "5438975" \| "5454787" \| "5487757" \| "5492119" \| "5520222" \| "5545200" \| "5573010" \| "5656011" \| "5662606" \| "5715817" \| "5876373" \| "5906590" \| "5921915" \| "5931811" \| "5935102" \| "6004263"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/10 22:48 |
| S41 | 17 | ("0616672" \| "0944830" \| "3060972" \| "3521620" \| "4686963" \| "5114402" \| "5140975" \| "5251538" \| "5381782" \| "5464404" \| "5476090" \| "5512035" \| "5520222").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/10 22:51 |
| S42 | 10 | ("5140975").URPN. | USPAT | OR | OFF | 2008/04/10 22:53 |
| S43 | 9 | ("5656011").URPN. | USPAT | OR | OFF | 2008/04/10 22:57 |
| S44 | 34 | ("5176126").URPN. | USPAT | OR | OFF | 2008/04/10 23:02 |

| S45 | 3 | (("5345945") or ("5827278") or ("20060184107")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/11 00:07 |
|---|---|---|---|---|---|---|
| S46 | 2 | (("20080188800") or ("20080188801")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/05 16:19 |
| S47 | 3 | (("5336182") or ("5255668") or ("6450948")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/05 16:24 |
| S48 | 42 | ("0944830" \| "1928992" \| "2453862" \| "3060972" \| "4198960" \| "4353358" \| "4580551" \| "4686963" \| "4904048" \| "4934340" \| "5168864" \| "5176126" \| "5255668" \| "5257618" \| "5275151" \| "5307803" \| "5318041" \| "5318526" \| "5325845" \| "5335647" \| "5409453" \| "5423807" \| "5438975" \| "5454787" \| "5487757" \| "5492119" \| "5520222" \| "5545200" \| "5573010" \| "5656011" \| "5662606" \| "5715817" \| "5876373" \| "5906590" \| "5921915" \| "5931811" \| "5935102" \| "6004263").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 16:16 |
| S49 | 17 | ("0616672" \| "0944830" \| "3060972" \| "3521620" \| "4686963" \| "5114402" \| "5140975" \| "5251538" \| "5381782" \| "5464404" \| "5476090" \| "5512035" \| "5520222").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 16:20 |
| S50 | 3 | ("4998527" \| "5018506" \| "5058568").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 16:23 |
| S51 | 3 | ("4794912" \| "4890602" \| "4893613").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 16:23 |
| S52 | 15 | ("5018506").URPN. | USPAT | OR | OFF | 2008/11/06 16:24 |
| S53 | 15 | ("5018506").URPN. | USPAT | OR | OFF | 2008/11/06 17:06 |

| S54 | 52 | ("1060665" \| "3043309" \| "3419010" \| "3452742" \| "3521620" \| "3539034" \| "3547103" \| "3605725" \| "3674014" \| "3729008" \| "3773034" \| "3868956" \| "3890977" \| "3943932" \| "4020829" \| "4033331" \| "4146019" \| "4176662" \| "4182547" \| "4307723" \| "4351323" \| "4427000" \| "4456017" \| "4543090" \| "4582181" \| "4586923" \| "4601283" \| "4601705" \| "4616656" \| "4641654" \| "4643194" \| "4665906" \| "4676249" \| "4742817" \| "4748986" \| "4753223" \| "4758222" \| "4776844" \| "4790624" \| "4799474" \| "4808164" \| "4822345" \| "4873983" \| "4884557"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 17:12 |
|-----|-----|-----|-----|-----|-----|-----|
| S55 | 94 | ("5114402").URPN. | USPAT | OR | OFF | 2008/11/06 17:17 |
| S56 | 22 | ("2498692" \| "3044461" \| "3162214" \| "3266059" \| "3470876" \| "3669098" \| "4150676" \| "4245624" \| "4329983" \| "4353358" \| "4586923" \| "4589410" \| "4643720" \| "4898577" \| "5114402" \| "5231989" \| "5255668").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 17:26 |
| S57 | 48 | ("5306245").URPN. | USPAT | OR | OFF | 2008/11/06 17:27 |
| S58 | 22 | ("4033357" \| "4136703" \| "4488561" \| "4506680" \| "4572605" \| "4676249" \| "4727877" \| "4815478" \| "4922607" \| "4940062" \| "5040543" \| "5115818" \| "5125395" \| "5170787" \| "5282844" \| "5306245" \| "5327906" \| "5378234" \| "5473812" \| "5662119" \| "5728148" \| "5728149"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 17:30 |
| S59 | 80 | ("3060972").URPN. | USPAT | OR | OFF | 2008/11/06 17:40 |

| S60 | 11 | ("2748803" \| "3060972" \| "3583393" \| "4108211" \| "4580551" \| "4686963" \| "4834069" \| "5005558" \| "5106381").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 17:57 |
|---|---|---|---|---|---|---|
| S61 | 34 | ("5176126").URPN. | USPAT | OR | OFF | 2008/11/06 17:58 |
| S62 | 66 | ("3521620" \| "4886067" \| "4921482" \| "4979510" \| "4998916" \| "5037391" \| "5106381" \| "5108368" \| "5125896" \| "5176126" \| "5195968" \| "5217465" \| "5228441" \| "5231989" \| "5254088" \| "5255668" \| "5273535" \| "5299559" \| "5314418" \| "5315996" \| "5318525" \| "5318526" \| "5322064" \| "5325845" \| "5327905" \| "5328467" \| "5329923" \| "5334145" \| "5336182" \| "5358478" \| "5358479" \| "5363861" \| "5372587" \| "5381782" \| "5383852" \| "5383923" \| "5395327" \| "5431168" \| "5454787" \| "5478330" \| "5487757" \| "5489270" \| "5496260" \| "5507725" \| "5531686" \| "5545200" \| "5599305" \| "5642736" \| "5674197" \| "5676653" \| "5687723" \| "5755731" \| "5755760" \| "5782828" \| "5797842" \| "5810802" \| "5827242" \| "6033394" \| "6045550" \| "6049737" \| "6063077" \| "6142994" \| "6146338" \| "6163716" \| "6208881").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 17:59 |
| S63 | 9 | ("5702373" \| "5795341" \| "5827242" \| "5843168" \| "5846246" \| "5849034" \| "5868782" \| "5868783" \| "5891108").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:00 |
| S64 | 7 | ("6033394").URPN. | USPAT | OR | OFF | 2008/11/06 18:01 |

| S65 | 35 | ("2498692" \| "3470876" \| "3500820" \| "3521620" \| "3528406" \| "3605725" \| "3625200" \| "3773034" \| "4273111" \| "4543090" \| "4582181" \| "4586923" \| "4641649" \| "4643720" \| "4719924" \| "4723936" \| "4740195" \| "4758221" \| "4826087" \| "4838859" \| "4886067" \| "4921482" \| "4934340" \| "4934380" \| "4944727" \| "4984581" \| "4985022" \| "5037391" \| "5055101").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:06 |
| S66 | 50 | ("5395327").URPN. | USPAT | OR | OFF | 2008/11/06 18:08 |
| S67 | 28 | ("3920021" \| "4548207" \| "4674499" \| "4784161" \| "4848352" \| "4960134" \| "5125928" \| "5277696" \| "5363861" \| "5395327" \| "5398683" \| "5456664" \| "5531686" \| "5582609" \| "5718701" \| "5782760" \| "5810802" \| "5836875" \| "5891088" \| "5967976" \| "6001095" \| "6033378" \| "6064905" \| "6134463" \| "6379350" \| "6405067" \| "6477396" \| "6922579"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:09 |
| S68 | 62 | ("3470876" \| "4586923" \| "4664113" \| "4719924" \| "4723936" \| "4757827" \| "4898577" \| "4906230" \| "4920980" \| "4934340" \| "4960411" \| "5030204" \| "5114403" \| "5114414" \| "5125896" \| "5199950" \| "5231989" \| "5318525" \| "5336182" \| "5342299" \| "5363861" \| "5368564" \| "5381782" \| "5391146" \| "5395327" \| "5409483" \| "5419340" \| "5419764" \| "5431168" \| "5472017" \| "5477856" \| "5484407" \| "5507725" \| "5531686" \| "5531687" \| "5603697" \| "5611777" \| "5636634" \| "5676653" \| "5690642" \| "5702433" \| "5820591" \| | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:13 |

| | | "5843020" \| "5855560" \| "5857997" \| "5876340" \| "5876373" \| "5882333" \| "5897529" \| "5908405" \| "5916147" \| "5935102" \| "5938616" \| "6030360" \| "6059739" \| "6066125" \| "6083170" \| "6146355" \| "6213974" \| "6491681" \| "6544215").PN. | | | | |
|---|---|---|---|---|---|---|
| S69 | 18 | ("2688329" \| "4033331" \| "4150676" \| "4456017" \| "4586923" \| "4823805" \| "4906230" \| "4920980" \| "5030204" \| "5041085" \| "5168864" \| "5199950" \| "5331948" \| "5364352" \| "5368564" \| "5391146" \| "5399164").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:18 |
| S70 | 8 | ("3470876" \| "3485234" \| "4409993" \| "4456017" \| "4586932" \| "4677990").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:19 |
| S71 | 147 | ("4920980").URPN. | USPAT | OR | OFF | 2008/11/06 18:20 |
| S72 | 23 | ("1557958" \| "3071942" \| "3390546" \| "3844137" \| "4273111" \| "4456017" \| "4465482" \| "4580551" \| "4601713" \| "4660571" \| "4664113" \| "4911148" \| "4920980" \| "4940062" \| "4941455" \| "4942866" \| "4960134" \| "4969890" \| "4998923" \| "5037391").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/06 18:26 |
| S73 | 30 | ("5329923").URPN. | USPAT | OR | OFF | 2008/11/06 18:29 |
| S74 | 31 | ("5484407").URPN. | USPAT | OR | OFF | 2008/11/06 18:32 |
| S75 | 4 | ("6450948").URPN. | USPAT | OR | OFF | 2008/11/07 14:27 |
| S76 | 6 | ("4616631" \| "4742817" \| "5108368" \| "5131407" \| "5209735" \| "5257618").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 14:35 |
| S77 | 6 | ("3266059" \| "4236509" \| "4452236" \| "4655257" \| "4904048").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 14:47 |

| S78 | 13 | ("5257618").URPN. | USPAT | OR | OFF | 2008/11/07 14:48 |
|-----|-----|------------------|-------|-----|-----|----------------|
| S79 | 10 | ("5438975").URPN. | USPAT | OR | OFF | 2008/11/07 14:53 |
| S80 | 98 | (("5288257") or ("5601572") or ("20060292964") or ("20080109029") or ("5580082") or ("4921482") or ("4934340") or ("5037391") or ("5203772") or ("5255749") or ("5277199") or ("5308324") or ("5318041") or ("5342299") or ("5368564") or ("5370617") or ("5372587") or ("5378234") or ("5415633") or ("5423311") or ("5437636") or ("5498231") or ("5507725") or ("5531687") or ("5549580") or ("5820592") or ("5846221") or ("5860953") or ("5868741") or ("5876399") or ("5888192") or ("5891137") or ("5916147") or ("6007531") or ("6017322") or ("6030360") or ("6078831") or ("6146355") or ("6196230") or ("6217528") or ("6217528") or ("6231585") or ("6234958") or ("6241726") or ("6261246") or ("6261304") or ("6387119") or ("6402723") or ("6409751") or | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 15:01 |

("6447444") or
("6459921") or
("6529760") or
("6544215") or
("6694983") or
("6796945") or
("6887229") or
("6916306") or
("6945970") or
("6991616") or
("7182764") or
("7354430") or
("20010007927") or
("20010029337") or
("20010034547") or
("20010039445") or
("20020100484") or
("20020188189") or
("20030114744") or
("20030125710") or
("20030135156") or
("20040118415") or
("20040186507") or
("20050020901") or
("20050119615") or
("20050131343") or
("20050165276") or
("20050215992") or
("20050283135") or
("20060074383") or
("20060184107") or
("20060217755") or
("20070161856") or
("20080015625") or
("20080058595") or
("20080188800") or
("20080188801") or
("20080215067") or
("4380692") or
("4860746") or
("5528845") or
("5697934") or
("5768957") or
("6307161") or
("6434283") or
("20060241341") or
("5365942") or
("RE37148") or
("RE37148") or
("4582066") or
("4756379")).PN.

| S81 | 9 | ("5203772" \| "5318526" \| "5381782" \| "5396880" \| "5437636" \| "5454787" \| "5454794" \| "5456664" \| "5676653").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 15:06 |
|-----|----|----|----|----|----|----|
| S82 | 1 | ("5364352").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 15:08 |
| S83 | 19 | ("5676653").URPN. | USPAT | OR | OFF | 2008/11/07 15:09 |
| S84 | 24 | ("3608612" \| "3620883" \| "3769158" \| "4210323" \| "4732162" \| "4932939" \| "4935008" \| "5007903" \| "5209734" \| "5230348" \| "5273527" \| "5348541" \| "5395327" \| "5395328" \| "5413560" \| "5437632" \| "5460614" \| "5531703" \| "5676653" \| "5826576" \| "5987344" \| "6035224" \| "6083170" \| "6169916").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 15:10 |
| S85 | 0 | ("6770038").URPN. | USPAT | OR | OFF | 2008/11/07 15:11 |
| S86 | 19 | ("5190050" \| "5273535" \| "5328467" \| "5397321" \| "5431168" \| "5545200" \| "5555618" \| "5571073" \| "5582609" \| "5643255" \| "5656029" \| "5662606" \| "5676653" \| "5685868" \| "5772641" \| "5820591" \| "5827278" \| "5964757" \| "6066125").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 15:13 |
| S87 | 3 | ("6287301").URPN. | USPAT | OR | OFF | 2008/11/07 15:16 |
| S88 | 17 | ("3162214" \| "3946727" \| "3948251" \| "4290421" \| "4580551" \| "4686963" \| "4805595" \| "4805596" \| "4819634" \| "4899787" \| "4998923" \| "5002041" \| "5058568" \| "5106381" \| "5195968" \| "5235964").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 15:18 |
| S89 | 26 | ("5381782").URPN. | USPAT | OR | OFF | 2008/11/07 15:19 |
| S90 | 16 | ("6030360").URPN. | USPAT | OR | OFF | 2008/11/07 15:23 |

| S91 | 100 | (("4669478") or | US-PGPUB; | OR | | OFF | 2008/11/07 |
|---|---|---|---|---|---|---|---|
| | | ("4676249") or | USPAT; | | | | 15:47 |
| | | ("4748982") or | USOCR | | | | |
| | | ("4822345") or | | | | | |
| | | ("4909787") or | | | | | |
| | | ("5104377") or | | | | | |
| | | ("5360406") or | | | | | |
| | | ("5382238") or | | | | | |
| | | ("5391147") or | | | | | |
| | | ("5401244") or | | | | | |
| | | ("5449362") or | | | | | |
| | | ("5766203") or | | | | | |
| | | ("5944689") or | | | | | |
| | | ("6074351") or | | | | | |
| | | ("6078831") or | | | | | |
| | | ("6235026") or | | | | | |
| | | ("6261246") or | | | | | |
| | | ("6459921") or | | | | | |
| | | ("6529760") or | | | | | |
| | | ("6544215") or | | | | | |
| | | ("6564429") or | | | | | |
| | | ("6634533") or | | | | | |
| | | ("6821466") or | | | | | |
| | | ("6865841") or | | | | | |
| | | ("6929613") or | | | | | |
| | | ("6991616") or | | | | | |
| | | ("20010029337") or | | | | | |
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| | | ("20030135156") or | | | | | |
| | | ("20030141624") or | | | | | |
| | | ("20040098900") or | | | | | |
| | | ("20040243212") or | | | | | |
| | | ("20050154254") or | | | | | |
| | | ("20050209578") or | | | | | |
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| | | ("20070021771") or | | | | | |
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| | | ("4917082") or | | | | | |
| | | ("5237703") or | | | | | |
| | | ("5267958") or | | | | | |
| | | ("5312360") or | | | | | |
| | | ("5364357") or | | | | | |
| | | ("5389073") or | | | | | |
| | | ("5423771") or | | | | | |
| | | ("5533967") or | | | | | |
| | | ("5571168") or | | | | | |
| | | ("5588964") or | | | | | |

|  |  | ("5733267") or<br>("5881508") or<br>("5954729") or<br>("6013085") or<br>("6014290") or<br>("6062510") or<br>("6162179") or<br>("6202256") or<br>("6206834") or<br>("6325813") or<br>("6446988") or<br>("6482162") or<br>("6551300") or<br>("6575911") or<br>("6656174") or<br>("6712807") or<br>("6743196") or<br>("6800065") or<br>("6805662") or<br>("6964667") or<br>("7052453") or<br>("7094246") or<br>("7272449") or<br>("7343206") or<br>("20020007530") or<br>("20020055746") or<br>("20020082600") or<br>("20020128596") or<br>("20020198526") or<br>("20030023200") or<br>("20030065373") or<br>("20030144576") or<br>("20030191491") or<br>("20030233115") or<br>("20040039372") or<br>("20040078057") or<br>("20040092973") or<br>("20040097865") or<br>("20040122501") or<br>("20040162460") or<br>("20040215193") or<br>("20040215305") or<br>("20040236390") or<br>("20050004627") or<br>("20050021052") or<br>("20050021119")).PN. |  |  |  |  |
|---|---|---|---|---|---|---|
| S92 | 0 | ("2007/0021771").URPN. | USPAT | OR | OFF | 2008/11/07<br>15:52 |
| S93 | 5 | ("6508802").URPN. | USPAT | OR | OFF | 2008/11/07<br>16:02 |

| S94 | 130 | ("0510413" \| "2402306" \| "2498692" \| "2512568" \| "2551902" \| "2670673" \| "2688329" \| "2700385" \| "2952256" \| "3435824" \| "3467096" \| "3487837" \| "3530492" \| "3572336" \| "3595231" \| "3765420" \| "3783876" \| "3797491" \| "3826241" \| "3831584" \| "3920001" \| "3951132" \| "3991767" \| "4150669" \| "4167179" \| "4168708" \| "4222380" \| "4230119" \| "4243035" \| "4245624" \| "4280508" \| "4299230" \| "4356826" \| "4419094" \| "4578061" \| "4645495" \| "4674506" \| "4721109" \| "4753236" \| "4760847" \| "4787891" \| "4798193" \| "4838851" \| "4861336" \| "4877037" \| "4919653" \| "4932421" \| "4940458" \| "4946442" \| "4946463" \| "4966589" \| "4976688" \| "4994041" \| "5036868" \| "5037428" \| "5080104" \| "5098412" \| "5121750" \| "5146913" \| "5147307" \| "5192270" \| "5192289" \| "5195526" \| "5254088" \| "5259377" \| "5261889" \| "5269754" \| "5273525" \| "5290258" \| "5312351" \| "5322510" \| "5323789" \| "5335670" \| "5336182" \| "5354279" \| "5364374" \| "5376084" \| "5380292" \| "5395327" \| "5417662" \| "5417683" \| "5425739" \| "5441499" \| "5464395" \| "5478315" \| "5478330" \| "5520650" \| "5522815" \| "5531686" \| "5536251" \| "5569217" \| "5569237" \| "5611778" \| "5673704" \| "5674197" \| "5713890" \| "5810757" \| "5820591" \| "5820592" \| "5827216" \| "5845646" \| "5846225" \| "5868764" \| "5882331" \| "5997509" \| "6027473" \| "6033378" \| "6120476" \| | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 16:02 |
|---|---|---|---|---|---|---|

| | | "6126633" \| "6171277" \| "6179809" \| "6183463" \| "6203525" \| "6277107" \| "6332880" \| "6346099"). PN. | | | | | |
|---|---|---|---|---|---|---|---|
| S95 | 35 | ("2498692" \| "3470876" \| "3500820" \| "3521620" \| "3528406" \| "3605725" \| "3625200" \| "3773034" \| "4273111" \| "4543090" \| "4582181" \| "4586923" \| "4641649" \| "4643720" \| "4719924" \| "4723936" \| "4740195" \| "4758221" \| "4826087" \| "4838859" \| "4886067" \| "4921482" \| "4934340" \| "4934380" \| "4944727" \| "4984581" \| "4985022" \| "5037391" \| "5055101").PN. | US-PGPUB; USPAT; USOCR | OR | | OFF | 2008/11/07 16:06 |
| S96 | 38 | ("5531686").URPN. | USPAT | OR | | OFF | 2008/11/07 16:11 |
| S97 | 2 | ("5531686" \| "5820591"). PN. | US-PGPUB; USPAT; USOCR | OR | | OFF | 2008/11/07 16:17 |
| S98 | 1 | ("6702780").URPN. | USPAT | OR | | OFF | 2008/11/07 16:18 |
| S99 | 10 | ("4773395" \| "4834069" \| "4928669" \| "5007908" \| "5192280" \| "5220911" \| "5314466" \| "5330470" \| "5342357" \| "5360428"). PN. | US-PGPUB; USPAT; USOCR | OR | | OFF | 2008/11/07 16:42 |
| S100 | 215 | ("5441499").URPN. | USPAT | OR | | OFF | 2008/11/07 16:49 |
| S101 | 386 | (604/95.04).CCLS. | US-PGPUB; USPAT; USOCR | OR | | OFF | 2008/11/07 17:14 |
| S102 | 67 | ("3890977" \| "4350148" \| "4475905" \| "4586923" \| "4658817" \| "4669465" \| "4702260" \| "4766906" \| "4784133" \| "4844062" \| "4846171" \| "4911148" \| "4920980" \| "4960134" \| "4976710" \| "5030204" \| "5104393" \| "5114402" \| "5125896" \| "5178158" \| "5190050" \| "5255679" \| "5261889" \| "5279596" \| "5307803" \| "5358479" \| | US-PGPUB; USPAT; USOCR | OR | | OFF | 2008/11/08 11:46 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | "5364352" \| "5378234" \| "5380316" \| "5386837" \| "5389096" \| "5397304" \| "5409453" \| "5431168" \| "5464394" \| "5465717" \| "5468233" \| "5489270" \| "5498238" \| "5514128" \| "5531685" \| "5533967" \| "5554114" \| "5569220" \| "5571073" \| "5571151" \| "5607421" \| "5656029" \| "5656030" \| "5662622" \| "5685853" \| "5697916" \| "5741320" \| "5782824" \| "5827278" \| "5840059" \| "5843076" \| "5876373" \| "5897529" \| "5938653" \| "5944690" \| "5964757" \| "5964971" \| "5999678" \| "6030371" \| "6165188" \| "RE34502").PN. | | | | |
| S103 | 10 | ("6554794").URPN. | USPAT | OR | OFF | 2008/11/08 12:14 |
| S104 | 8 | ("3625200" \| "3854473" \| "4757827" \| "4830023" \| "4886067" \| "4940062" \| "4998916" \| "5060660").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/08 12:31 |
| S105 | 72 | ("5190050").URPN. | USPAT | OR | OFF | 2008/11/08 12:31 |
| S106 | 5 | ((("5507725") or ("6554794") or ("5336182") or ("5255668") or ("6450948")).PN. | USPAT; USOCR | OR | OFF | 2008/11/08 14:13 |
| S107 | 4 | ((("5255668") or ("6554794") or ("6450948") or ("5507725")).PN. | USPAT; USOCR | OR | OFF | 2009/07/16 19:47 |
| S108 | 4 | ("4686963" \| "5002041" \| "5106381" \| "5176126").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/16 20:04 |
| S109 | 30 | ("4686963").URPN. | USPAT | OR | OFF | 2009/07/16 20:37 |
| S110 | 3 | ("4236509" \| "4580551" \| "4659195").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/16 20:50 |
| S111 | 14 | ("5106381").URPN. | USPAT | OR | OFF | 2009/07/16 20:50 |

| S112 | 12 | ("3612058" \| "4763647" \| "4920980" \| "5001825" \| "5106381" \| "5231989" \| "5238005" \| "5255668" \| "5336182" \| "5363861" \| "5431168" \| "5497784"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/16 20:52 |
|------|----|----|----|----|----|----|
| S113 | 16 | ("5855560").URPN. | USPAT | OR | OFF | 2009/07/16 20:55 |
| S114 | 31 | ("3625200" \| "3854473" \| "4169464" \| "4474174" \| "4757827" \| "4799496" \| "4830023" \| "4886067" \| "4940062" \| "4955382" \| "4979510" \| "4998916" \| "5030204" \| "5060660" \| "5114402" \| "5190050" \| "5254088" \| "5257451" \| "5269757" \| "5273535" \| "5275162" \| "5281212" \| "5281217" \| "5293869" \| "5308910" \| "5313943" \| "5314466" \| "5318525" \| "5358479" \| "5368564" \| "5472017").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 13:53 |
| S115 | 6 | ("4169464" \| "4474174" \| "5114402" \| "5190050" \| "5254088" \| "5269757"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 13:54 |
| S116 | 52 | ("1060665" \| "3043309" \| "3419010" \| "3452742" \| "3521620" \| "3539034" \| "3547103" \| "3605725" \| "3674014" \| "3729008" \| "3773034" \| "3868956" \| "3890977" \| "3943932" \| "4020829" \| "4033331" \| "4146019" \| "4176662" \| "4182547" \| "4307723" \| "4351323" \| "4427000" \| "4456017" \| "4543090" \| "4582181" \| "4586923" \| "4601283" \| "4601705" \| "4616656" \| "4641654" \| "4643194" \| "4665906" \| "4676249" \| "4742817" \| "4748986" \| "4753223" \| "4758222" \| "4776844" \| "4790624" \| "4799474" \| "4808164" \| "4822345" \| "4873983" \| "4884557"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 13:57 |

| S117 | 5 | ("3890977" \| "4205293" \| "4531988" \| "4601283" \| "4620769").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 14:00 |
|---|---|---|---|---|---|---|
| S118 | 56 | ("4790624").URPN. | USPAT | OR | OFF | 2009/07/17 14:01 |
| S119 | 25 | ("3890977" \| "4516972" \| "4586923" \| "4658817" \| "4669465" \| "4757827" \| "4790624" \| "4798598" \| "4846171" \| "5104393" \| "5114402" \| "5190050" \| "5255679" \| "5318528" \| "5358479" \| "5380316" \| "5389096" \| "5397321" \| "5465717" \| "5549601" \| "5571085" \| "5730741" \| "5876373" \| "5964757" \| "6126654").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 15:09 |
| S120 | 4 | ("6530913").URPN. | USPAT | OR | OFF | 2009/07/17 15:13 |
| S121 | 17 | ("3799151" \| "4236509" \| "4753223" \| "4758222" \| "4776844" \| "4790624" \| "4890602" \| "4930494" \| "4967732" \| "4976191" \| "5125143" \| "5140975" \| "5179934" \| "5325845" \| "5452395" \| "5482029" \| "5531664").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 15:18 |
| S122 | 24 | ("3043309" \| "3162214" \| "3605725" \| "3674014" \| "3773034" \| "3890977" \| "3938502" \| "4037411" \| "4142531" \| "4146019" \| "4176662" \| "4327711" \| "4329980" \| "4411655" \| "4503676" \| "4503842" \| "4543090" \| "4556050" \| "4559951" \| "4601283" \| "4643202").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 15:50 |
| S123 | 173 | ("4753223").URPN. | USPAT | OR | OFF | 2009/07/17 15:54 |

| S124 | 21 | ("4723936" \| "4753223" \| "4960134" \| "4998916" \| "5098431" \| "5190050" \| "5263493" \| "5295484" \| "5313943" \| "5358479" \| "5368564" \| "5389073" \| "5395327" \| "5397321" \| "5409000" \| "5487757" \| "5531686" \| "5545200" \| "5582609" \| "5617854" \| "5653684").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/17 16:54 |
|---|---|---|---|---|---|---|
| S125 | 114 | ("5782828").URPN. | USPAT | OR | OFF | 2009/07/17 16:56 |
| S126 | 8 | ("3071161" \| "3253524" \| "3572325" \| "3605725"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/18 09:42 |
| S127 | 52 | ("3799151").URPN. | USPAT | OR | OFF | 2009/07/18 09:43 |
| S128 | 10 | ("3270641" \| "3557780" \| "3799151" \| "4790294" \| "4873965" \| "5005558" \| "5105819" \| "5220911" \| "5271381").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/18 09:45 |
| S129 | 17 | ("5873817").URPN. | USPAT | OR | OFF | 2009/07/18 09:46 |
| S130 | 18 | ("3270641" \| "3485237" \| "3605725" \| "3665928" \| "3799151" \| "4066070" \| "4207872" \| "4245624" \| "4280500" \| "4389208" \| "4403985" \| "4447227" \| "4563181" \| "4586923" \| "4643720").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/18 10:35 |
| S131 | 62 | ("4906230").URPN. | USPAT | OR | OFF | 2009/07/18 10:37 |
| S132 | 35 | ("4586923" \| "4748969" \| "4898577" \| "4906230" \| "4920980" \| "4960134" \| "5114414" \| "5190050" \| "5242441" \| "5318525" \| "5318526" \| "5327905" \| "5334169" \| "5354297" \| "5368564" \| "5431168" \| "5462527" \| "5472017" \| "5487757" \| "5489270" \| "5545200" \| "5562619" \| "5571085" \| "5624397" \| "5642736" \| "5662606" \| "5702373" \| "5807249" \| "5820592" \| "5823955" \| "5882333" \| "5891114" \| | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/18 10:50 |

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|---|---|---|---|---|---|---|
| | | "5897529" \| "5951539" \| "5971975").PN. | | | | |
| S133 | 26 | ("3253524" \| "3470876" \| "3521620" \| "4329980" \| "4350147" \| "4353358" \| "4425919" \| "4576772" \| "4580551" \| "4726355" \| "4773395" \| "4805596" \| "4834069" \| "4850351" \| "4873965" \| "4898577" \| "4919112" \| "5030204" \| "5125395" \| "5125896" \| "5167221" \| "5168864" \| "5176660").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/18 11:44 |
| S134 | 19 | ("5318526").URPN. | USPAT | OR | OFF | 2009/07/18 11:54 |
| S135 | 295 | (604/95.01).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/18 13:12 |
| S136 | 0 | ("2008/0188800").URPN. | USPAT | OR | OFF | 2009/07/18 13:18 |
| S137 | 65 | ("20060184107" \| "3470876" \| "4586923" \| "4664113" \| "4719924" \| "4723936" \| "4757827" \| "4898577" \| "4906230" \| "4920980" \| "4934340" \| "4960411" \| "5030204" \| "5114403" \| "5114414" \| "5125896" \| "5199950" \| "5231989" \| "5318525" \| "5336182" \| "5342299" \| "5345945" \| "5363861" \| "5368564" \| "5381782" \| "5391146" \| "5395327" \| "5409483" \| "5419340" \| "5419764" \| "5431168" \| "5472017" \| "5477856" \| "5484407" \| "5507725" \| "5531686" \| "5531687" \| "5603697" \| "5611777" \| "5636634" \| "5676653" \| "5690642" \| "5702433" \| "5820591" \| "5827278" \| "5843020" \| "5855560" \| "5857997" \| "5876340" \| "5876373" \| "5882333" \| "5897529" \| "5908405" \| "5916147" \| "5935102" \| "5938616" \| "6030360" \| "6059739" \| "6066125" \| "6083170" \| "6146355" \| | US-PGPUB; USPAT | OR | OFF | 2009/07/18 13:23 |

| | | "6213974" \| "6491681" \| "6544215" \| "6991616"). PN. | | | | |
|---|---|---|---|---|---|---|
| S138 | 1 | ("6554794").PN. | USPAT; USOCR | OR | OFF | 2009/07/18 14:27 |
| S139 | 2 | (("6450948") or ("5507725")).PN. | USPAT; USOCR | OR | OFF | 2009/07/18 15:10 |
| S140 | 1 | ("5472017").PN. | USPAT; USOCR | OR | OFF | 2009/07/19 14:11 |
| S141 | 4 | (("5472017") or ("5255668") or ("6450948") or ("5507725")).PN. | USPAT; USOCR | OR | OFF | 2009/07/19 14:28 |
| S142 | 5 | (("5472017") or ("5255668") or ("6450948") or ("5507725") or ("7090637")).PN. | USPAT; USOCR | OR | OFF | 2009/07/19 14:30 |
| S143 | 33 | ("20020156497" \| "20020177750" \| "20030036748" \| "20030050649" \| "20030078644" \| "20030108888" \| "20030149338" \| "20030229271" \| "20040138700" \| "3557780" \| "4489826" \| "4700693" \| "5271381" \| "5297443" \| "5441494" \| "5522788" \| "5716352" \| "5807376" \| "5813813" \| "5873817" \| "5899425" \| "5916146" \| "5916147" \| "5938678" \| "6161543" \| "6270453" \| "6471696" \| "6491626" \| "6743239" \| "6746443" \| "6764445" \| "6817972" \| "RE38335"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/19 14:31 |
| S144 | 6 | (("5472017") or ("5255668") or ("6450948") or ("5507725") or ("7090637") or ("5848986")).PN. | USPAT; USOCR | OR | OFF | 2010/02/13 23:39 |
| S145 | 5 | (("5472017") or ("5255668") or ("6450948") or ("5507725") or ("5848986")).PN. | USPAT; USOCR | OR | OFF | 2010/02/13 23:40 |

| S146 | 2 | ("3288137").PN. | USPAT; USOCR | OR | OFF | 2010/02/16 15:38 |
|------|---|------------------|--------------|-----|-----|------------------|
| S147 | 19 | (("3470876") or ("4586923") or ("4664113") or ("4719924") or ("4723936") or ("4757827") or ("4898577") or ("4906230") or ("4920980") or ("4934340") or ("4960411") or ("5030204") or ("5114403") or ("5114414") or ("5125896") or ("5199950") or ("5231989") or ("5318525")).PN. | USPAT; USOCR | OR | OFF | 2010/02/27 17:25 |
| S148 | 19 | (("5336182") or ("5342299") or ("5345945") or ("5363862") or ("5368564") or ("5381782") or ("5391146") or ("5395327") or ("5409483") or ("5419340") or ("5419761") or ("5431168") or ("5472017") or ("5477856") or ("5484407") or ("5507725") or ("5531686") or ("5531687") or ("5603697")).PN. | USPAT; USOCR | OR | OFF | 2010/02/27 17:31 |
| S149 | 19 | (("5611777") or ("5636634") or ("5676653") or ("5690642") or ("5702433") or ("5820591") or ("5827278") or ("5843020") or ("5855560") or ("5857997") or ("5876340") or ("5876373") or ("5882333") or ("5897529") or | USPAT; USOCR | OR | OFF | 2010/02/27 17:36 |

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|---|---|---|---|---|---|---|
| | | ("5908405") or ("5916147") or ("5935102") or ("5938616") or ("6030360")).PN. | | | | |
| S150 | 9 | (("6059739") or ("6066125") or ("6083170") or ("6146355") or ("6213974") or ("6491681") or ("6544215") or ("6991616") or ("20060184107")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/02/27 17:38 |
| S151 | 3 | (("5255668") or ("6450948") or ("20080188801")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/02/27 17:39 |
| S152 | 303 | (604/95.01).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/02/27 17:46 |
| S153 | 5 | (("6585717") or ("4723936") or ("5484407") or ("5472017") or ("5381782")).PN. | USPAT; USOCR | OR | OFF | 2010/02/27 17:49 |
| S154 | 273 | (604/95.04).CCLS. | USPAT; USOCR | OR | OFF | 2010/02/27 18:32 |
| S155 | 5 | (("6450948") or ("5848986") or ("5507725") or ("5472017") or ("5255668")).PN. | USPAT; USOCR | OR | OFF | 2010/06/03 14:54 |
| S156 | 1 | ("5472017").PN. | USPAT; USOCR | OR | OFF | 2010/06/03 19:42 |
| S157 | 1 | ("6544215").PN. | USPAT; USOCR | OR | OFF | 2010/06/22 14:00 |
| S158 | 1 | ("20080188800").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/22 14:02 |
| S159 | 2 | ("2008/0188800").URPN. | USPAT | OR | OFF | 2010/06/22 14:04 |
| S160 | 1 | ("20080234660").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/23 16:03 |

| S161 | 39 | ("20020077590" \| "20020177772" \| "20040122360" \| "20040181208" \| "20050038467" \| "20050107737" \| "20050267461" \| "20070005008" \| "20070270679" \| "4306029" \| "4425919" \| "5125895" \| "5125896" \| "5238005" \| "5281217" \| "5395328" \| "5395329" \| "5487757" \| "5782828" \| "5843031" \| "5843152" \| "5861024" \| "5876340" \| "5891138" \| "5893884" \| "5897554" \| "5906605" \| "5941471" \| "6023638" \| "6029091" \| "6033403" \| "6143013" \| "6212426" \| "6233477" \| "6241727" \| "6308090" \| "6450948" \| "6582536" \| "6942661"). PN. | US-PGPUB; USPAT | OR | OFF | 2010/06/23 16:06 |
|------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|-----|-------------------|
| S162 | 72 | ("20020165534" \| "20030109861" \| "20030135156" \| "20030135199" \| "20030181827" \| "20030187389" \| "20030233058" \| "20030236492" \| "20030236493" \| "20040097819" \| "20040116848" \| "4586923" \| "4886067" \| "4898577" \| "4921482" \| "4964409" \| "4998916" \| "5108368" \| "5190050" \| "5195968" \| "5199950" \| "5203772" \| "5254088" \| "5299580" \| "5308324" \| "5336182" \| "5345937" \| "5358478" \| "5358479" \| "5368564" \| "5372587" \| "5391146" \| "5395327" \| "5399164" \| "5480382" \| "5531686" \| "5545200" \| "5562619" \| "5579779" \| "5662606" \| "5676653" \| "5779646" \| "5830155" \| "5891088" \| "5893885" \| "5897529" \| "5957863" \| | US-PGPUB; USPAT | OR | OFF | 2010/06/23 16:14 |

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|---|---|---|---|---|---|---|
| | | "6004291" \| "6064905" \|<br>"6066125" \| "6123699" \|<br>"6146355" \| "6198974" \|<br>"6203507" \| "6251092" \|<br>"6355016" \| "6375629" \|<br>"6398776" \| "6402719" \|<br>"6500167" \| "6530897" \|<br>"6544215" \| "6571131" \|<br>"6582536" \| "6602242" \|<br>"6607496" \| "6616628" \|<br>"6669670" \| "6706010" \|<br>"6783521" \| "6976979" \|<br>"RE34695").PN. | | | | |
| S163 | 23 | ("4129129" \| "4639252" \|<br>"4863441" \| "4976688" \|<br>"5222949" \| "5269752" \|<br>"5360406" \| "5405338" \|<br>"5423745" \| "5704926" \|<br>"5765568" \| "5769828" \|<br>"5807326" \| "5984908" \|<br>"6030356" \| "6042576" \|<br>"6146371" \| "6152911" \|<br>"6197014" \| "6319244" \|<br>"6440120" \| "6447484" \|<br>"6544215").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/06/23<br>16:19 |
| S164 | 3 | ("6976979").URPN. | USPAT | OR | OFF | 2010/06/23<br>16:25 |
| S165 | 1 | ("7731682").PN. | USPAT;<br>USOCR | OR | OFF | 2010/06/23<br>19:16 |
| S166 | 5 | ("5378234" \| "5462527" \|<br>"5624397" \| "5891088" \|<br>"6027461").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/06/23<br>19:29 |
| S167 | 29 | ("0033166" \| "3470876" \|<br>"3521620" \| "3547103" \|<br>"3605725" \| "4236509" \|<br>"4456017" \| "4676249" \|<br>"4719924" \| "4723936" \|<br>"4753223" \| "4757827" \|<br>"4758222" \| "4815478" \|<br>"4850351" \| "4886067" \|<br>"4898577" \| "4899787" \|<br>"4940062" \| "5024654" \|<br>"5084012" \| "5108368" \|<br>"5176126" \| "5195968").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2010/06/23<br>20:09 |
| S168 | 31 | ("5378234").URPN. | USPAT | OR | OFF | 2010/06/23<br>20:19 |
| S169 | 6 | ("6530897").URPN. | USPAT | OR | OFF | 2010/06/23<br>20:30 |

| S170 | 457 | (604/95.04).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/23 20:47 |
|---|---|---|---|---|---|---|
| S171 | 8 | ("3470876" \| "3485234" \| "4409993" \| "4456017" \| "4586932" \| "4677990").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/23 20:56 |
| S172 | 162 | ("4920980").URPN. | USPAT | OR | OFF | 2010/06/23 20:57 |
| S173 | 23 | ("4129129" \| "4639252" \| "4863441" \| "4976688" \| "5222949" \| "5269752" \| "5360406" \| "5405338" \| "5423745" \| "5704926" \| "5765568" \| "5769828" \| "5807326" \| "5984908" \| "6030356" \| "6042576" \| "6146371" \| "6152911" \| "6197014" \| "6319244" \| "6440120" \| "6447484" \| "6544215").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/24 10:18 |
| S174 | 3 | ("6976979").URPN. | USPAT | OR | OFF | 2010/06/24 10:24 |
| S175 | 2 | ("5176660" \| "5971975").PN. | USPAT | OR | OFF | 2010/06/24 10:45 |
| S176 | 0 | ("2007/0010786").URPN. | USPAT | OR | OFF | 2010/06/24 10:45 |
| S177 | 14 | ("20040138744" \| "20040153146" \| "20060293646" \| "20090082723" \| "5437288" \| "5438975" \| "5477856" \| "5531677" \| "5554118" \| "5685868" \| "5947925" \| "6428489" \| "6450948" \| "7217246").PN. | US-PGPUB; USPAT | OR | OFF | 2010/06/24 10:52 |
| S178 | 52 | ("20050209557" \| "3470876" \| "3892228" \| "4719924" \| "4898577" \| "4921482" \| "4985022" \| "4998916" \| "5037391" \| "5108368" \| "5203772" \| "5254088" \| "5336182" \| "5342299" \| "5364351" \| "5372587" \| "5378234" \| "5389073" \| "5391147" \| "5395327" \| "5395328" \| "5431168" \| "5456664" \| "5478330" \| "5484407" \| "5531686" \| "5533967" \| | US-PGPUB; USPAT | OR | OFF | 2010/06/24 11:09 |

| | | "5588964" \| "5656029" \| "5792074" \| "5797842" \| "5803083" \| "5876373" \| "6027473" \| "6030360" \| "6033378" \| "6120476" \| "6123699" \| "6126649" \| "6146355" \| "6171277" \| "6183463" \| "6213974" \| "6224587" \| "6491681" \| "6500167" \| "6530913" \| "6579279" \| "6585718" \| "6648875" \| "6783510" \| "6860876").PN. | | | | |
|---|---|---|---|---|---|---|
| S179 | 423 | (604/524).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/24 12:39 |
| S180 | 26 | ("20020007146" \| "4994032" \| "5041089" \| "5156594" \| "5163903" \| "5176637" \| "5290230" \| "5338295" \| "5364355" \| "5405338" \| "5423755" \| "5429597" \| "5460608" \| "5470315" \| "5505699" \| "5603721" \| "5728063" \| "6193686" \| "6315757" \| "6344029" \| "6355016" \| "6500147" \| "6629952" \| "6695812" \| "7179345" \| "7294124").PN. | US-PGPUB; USPAT | OR | OFF | 2010/06/24 14:10 |
| S181 | 784 | (604/528).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/24 14:15 |
| S182 | 5 | (("6450948") or ("5848986") or ("5507725") or ("5472017") or ("5255668")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/24 15:36 |
| S183 | 6 | (("6450948") or ("5848986") or ("5507725") or ("5472017") or ("5255668") or ("5378234")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/24 21:08 |
| S184 | 2 | (("4934340") or ("6554794")).PN. | USPAT; USOCR | OR | OFF | 2010/06/24 22:06 |
| S185 | 1 | ("5472017").PN. | USPAT; USOCR | OR | OFF | 2010/08/12 09:59 |
| S186 | 3 | ("20020058910" \| "5848986" \| "7695451"). PN. | US-PGPUB; USPAT | OR | OFF | 2010/08/12 11:30 |

| S187 | 2 | ("5378234" \| "7731682").PN. | US-PGPUB; USPAT | OR | OFF | 2010/08/12 11:31 |
|---|---|---|---|---|---|---|
| S188 | 3 | (("6450948") or ("5378234") or ("4934340")).PN. | USPAT; USOCR | OR | OFF | 2010/12/29 15:29 |
| S189 | 1 | ("5588442").PN. | USPAT; USOCR | OR | OFF | 2010/12/29 20:05 |
| S190 | 49 | ("3358676" \| "3674014" \| "3722505" \| "3941119" \| "3961632" \| "4054128" \| "4077412" \| "4134405" \| "4162679" \| "4244362" \| "4249536" \| "4315509" \| "4616648" \| "4671287" \| "4726369" \| "4762129" \| "4784117" \| "4784646" \| "4790809" \| "4804054" \| "4809713" \| "4829999" \| "4860742" \| "4875489" \| "4922923" \| "4932413" \| "4944740" \| "4947864" \| "4976689" \| "5020367" \| "5035686" \| "5040548" \| "5061273" \| "5117838" \| "5120323" \| "5156594" \| "5161534" \| "5195535" \| "5234407" \| "5255690" \| "5257636" \| "5267958" \| "5269759" \| "5281203" \| "5282478" \| "5325746" \| "5354282" \| "5464023" \| "B14762129").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/29 20:08 |
| S191 | 6 | ("5588442").URPN. | USPAT | OR | OFF | 2010/12/29 20:14 |
| S192 | 18 | ("3270641" \| "3485237" \| "3605725" \| "3665928" \| "3799151" \| "4066070" \| "4207872" \| "4245624" \| "4280500" \| "4389208" \| "4403985" \| "4447227" \| "4563181" \| "4586923" \| "4643720").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/29 20:17 |
| S193 | 8 | ("3071161" \| "3253524" \| "3572325" \| "3605725").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/29 20:25 |
| S194 | 56 | ("3799151").URPN. | USPAT | OR | OFF | 2010/12/29 20:26 |
| S195 | 480 | (604/95.04).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/29 20:39 |

| S196 | 8 | ("3470876" \| "3485234" \| "4409993" \| "4456017" \| "4586932" \| "4677990"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/29 21:11 |
|------|-----|------|------|------|------|------|
| S197 | 174 | ("4920980").URPN. | USPAT | OR | OFF | 2010/12/29 21:12 |
| S198 | 469 | (604/95.04).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/12/29 21:37 |
| S199 | 21 | ("3253524" \| "3470876" \| "3557780" \| "3605725" \| "3773034" \| "3892228" \| "4150676" \| "4207873" \| "4215703" \| "4294233" \| "4483326" \| "4586923" \| "4633882" \| "4659195" \| "4686963" \| "4822345" \| "5025804" \| "5030204"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/12/29 21:47 |

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